

2020 Report on South Dakota Bridges



Inspection of Platte-Winner Bridge

As of NBI Federal Submittal in March 2020

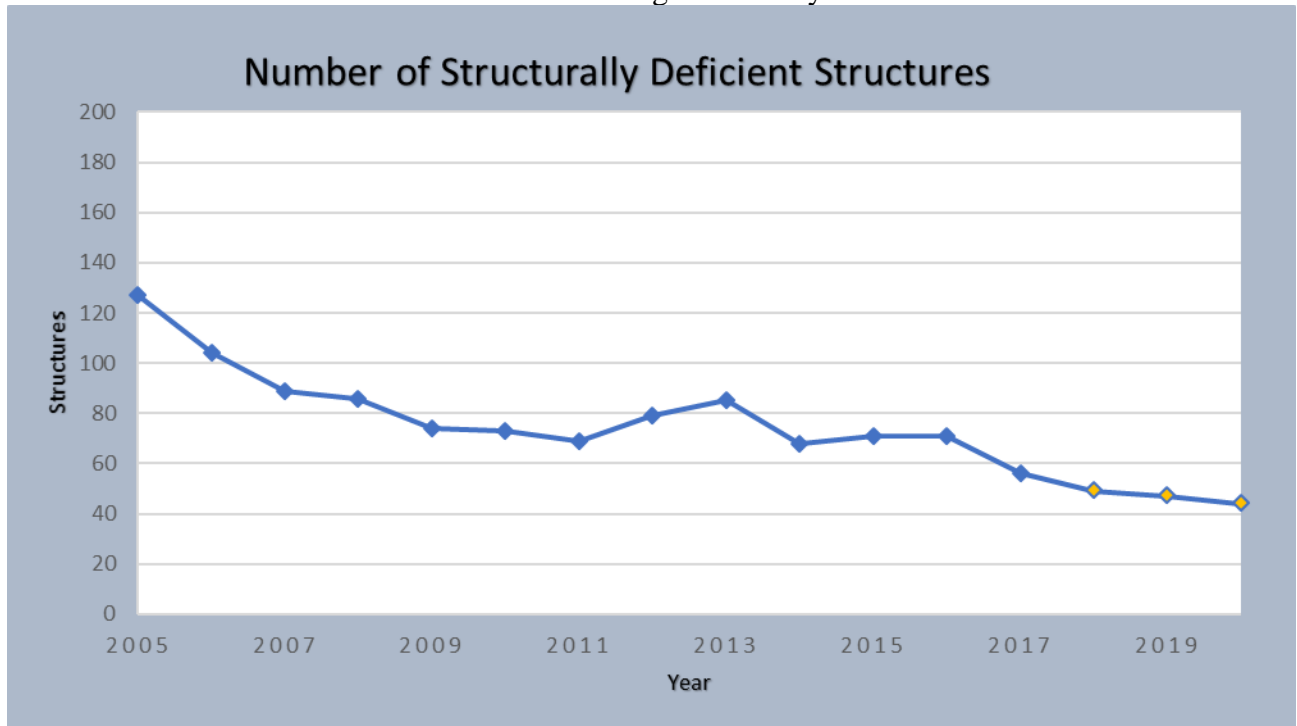
The South Dakota DOT owns 1802 bridge length (> 20 ft.) structures. Local government agencies (counties, cities, other governmental agencies, townships) own 3940 structures. Of the 1802 state owned structures, there are 1251 bridges and 551 culverts. Of the 3940 LGA structures, there are 3020 bridges and 920 culverts.

The 1251 state owned bridges account for 10,729,034 sq. ft of deck area and the 3020 locally owned bridges account for 6,959,788 sq. ft of deck area. The average state-owned bridge was built in 1973 and is approximately 41 ft wide by 209 ft long.

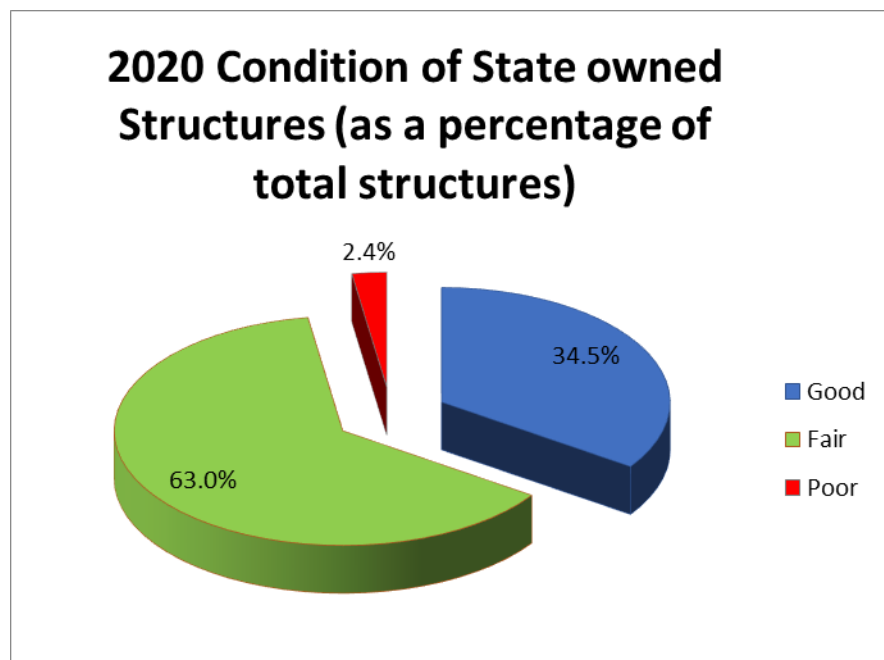
There are 9 major Missouri River highway bridge crossings in South Dakota. Two are maintained by Nebraska DOT, and seven are maintained by South Dakota. The seven structures managed by South Dakota total 904,621 sq ft of deck area. This is approximately 8.4% of the state-owned bridge deck area. Four of these bridges are in the Mitchell Region and the other three are in the Pierre Region. The Nebraska DOT manages the bridges on the SD 37 crossing at Running Water and the US 81 crossing at Yankton.

The average Missouri River Bridge is approximately 3,350 feet long. The longest bridge in the state is the Platte-Winner Bridge on SD 44 over Lake Francis Case Reservoir and is 5,656 feet long.

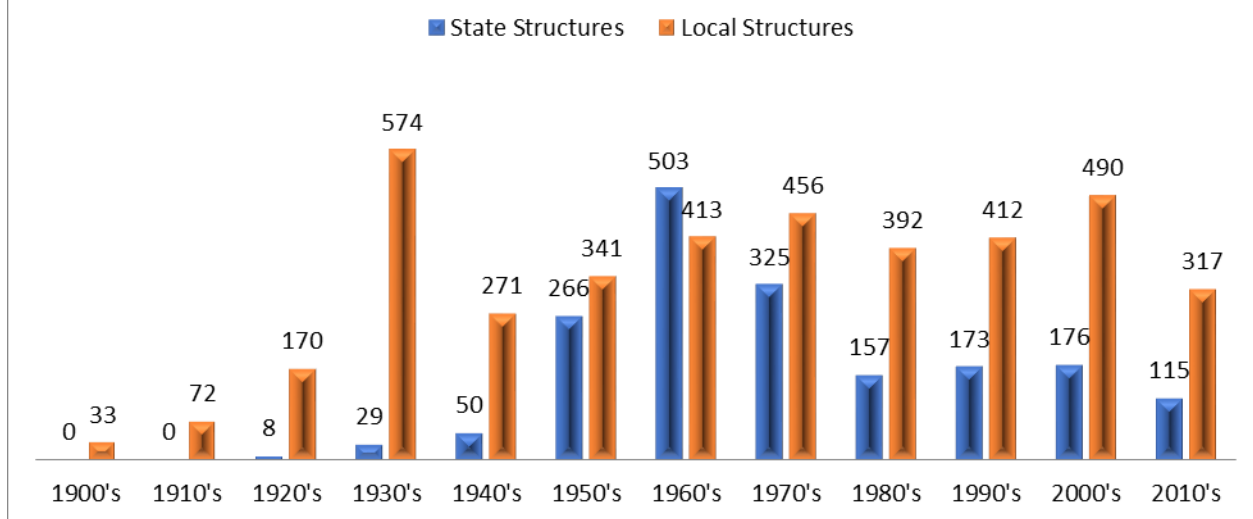
Recent SDDOT bridge deficiency trends



The 44 structurally deficient structures account for 2.4% of the SDDOT bridge inventory. Beginning in 2018 the requirements that cause a bridge to be structurally deficient changed and are now identical to the requirements for poor condition.



Current Structures Built in South Dakota by Decade of Original Construction



Most bridges in the state are inspected every two years. South Dakota received approval from FHWA based upon 23 CFR 650 to inspect some of the bridges every 4 years. Currently there are 422 structures eligible for 4-year inspections. These structure types are generally those that do not change or deteriorate very fast. All major Missouri River bridge crossings are inspected every year, except the SD 19 bridge over the Missouri River which was built in 2001. Bridges that require underwater inspections are inspected every 5 years by an underwater inspection consultant who inspects the underwater portions of the bridge. The Missouri River bridges had underwater inspections in 2017 and the remainder had underwater inspections completed in the summer of 2018.

Inspection Frequency of State Structures

Frequency	Bridges	NBI Culverts	Total
12 months	7	0	7
24 months	1201	172	1373
48 months	43	379	422
Total	1251	551	1802

Miscellaneous Statistics

	Bridges	NBI Culverts	Total
On Interstate System	578	52	630
On Interstate Mainline	405	41	446
Structures over Water	771	527	1289

Border Bridge Details

Highway	Feature Intersected	Border Agency	SD Str No	Border State Str No	State Maintains Inventory
I 29 N	Big Sioux River	Iowa	64-165-405	000000000053930	SD
I 29 S	Big Sioux River	Iowa	64-164-405	000000000053941	SD
SD 50	Big Sioux River	Iowa	64-086-223	000000000039650	IA
SD 48	Big Sioux River	City of Akron	64-122-170	000000000603911	SD
SD 46	Big Sioux River	Iowa	64-160-023	000000000048451	IA
US 18	Big Sioux River	Iowa	42-201-136	000000000034481	IA
SD 19	Missouri River	Nebraska	14-104-249	00000S015 20985	SD
SD 37	Missouri River	Nebraska	05-090-279	00000S014 20330	NE
US 81	Missouri River	Nebraska	68-120-210	00000S081 21489	NE